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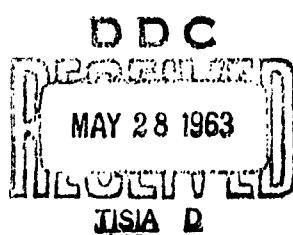
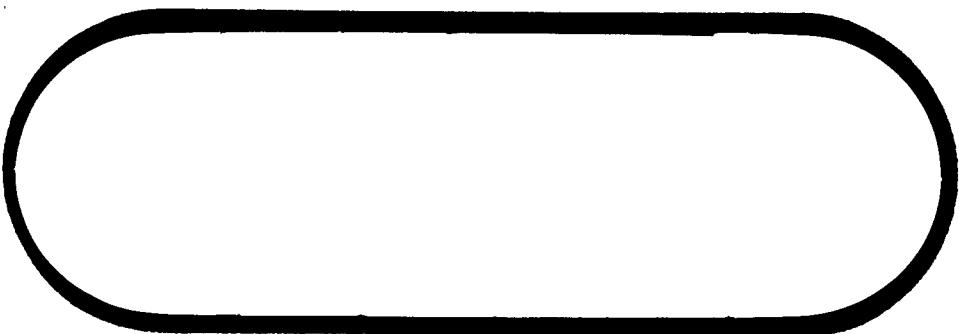
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THE **BOEING** COMPANY

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TITLE HARDENED INTERSITE CABLE TO ESA STUB CABLE SPLICING -
WING V, FIGURE A 1373 AND 1374 (Unclassified)

MODEL NO. WS-133A CONTRACT NO. AF04(694)-107

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1. CABLE ROUTING: COLOR CODE VERSUS COLOR CODE, NUMBERING SYSTEM, AND GENERAL SPLICING PROCEDURES FOR WING V (WARREN AFB).

1.1 This section covers the following:

- (a) Cable routing when more than one (1) hardened cable enters a facility, with reference to radial, conduit, H & D Stub, splice case, and ESA numbers.
- (b) Color code versus color code and numbering system to be followed in all facility splicing, (LF's and LCF's), of the Buried (hardened cable) Conductors to the ESA (pressure dam) Conductors at the splice case.
- (c) Splicing instructions and references for Wing V.

1.1.1 Table No. 1 shall be used for the LCF's (only) in determining the routing of the hardened cables, entering a facility, through to the ESA's as per radial, conduit, H & D Stub, splice case, and ESA numbers.

1.1.2 Table No. 2 shall be used for the LF's and LCF's to correlate between the wire pairs in the ESA Stub Cables and the Buried (hard) Intersite Cables. Since the group binders are not carried through the pressure dam, the ESA Stub Cable Conductor numbers as well as the color code must be used to distinguish the cable pairs when splicing the ESA Stub Cable to the Hardened Intersite Cable at the splice case.

1.1.3 Splicing between the Hardened Intersite Cable and the ESA Stub Cable shall be accomplished as indicated in Table 3.1, Specification GEEIA-B-80010, Volumes III-G through III-J inclusive.

- (a) Splicing shall be color to color (i.e., group one - pair one to wires one and two) except when specifically indicated otherwise (see 1.1.3c).
- (b) Unused pairs (dead copper) are listed after the active circuits in each segment, in Table 3.1, Specification GEEIA-B-80010, Volumes III-G through III-J. The unused pairs in the hardened cable stub shall be spliced color to color (corresponding group and pair numbers), to the ESA Stub Cable, except when specifically indicated otherwise (see 1.1.3c).
- (c) Exceptions:
 - (1) Segments without color to color splicing between buried and stub cables.

<u>Segment</u>	<u>Stub No.</u>
F5-11	1
L2-32	1
R3-49	1
T1-24	2
T1-32	4

1.1.3 (Continued)

(2) Segments with more than one wire pair spliced to one stub cable pair.

<u>Segment</u>	<u>Stub</u>	<u>Adjacent Segment</u>
T1-24	2	24-23
T1-32	2	32-33

(d) Splicing instructions for 1.1.3c are initiated in revision dated 25 January 1963, of Specification GEEIA-B-80010, Volume III.

(e) All unused ESA Stub Cable Pairs are to be of sufficient length to allow for future splicing if necessary. The unused ESA Stub Cable Pairs are to be taped on the ends and bundled together at the splice. Interface control Document D25-35217 will specify the splicing procedure in the LF and LCF splice cases.

(f) Splicing Instructions

(1) The following splicing sequence should be followed:

- a. All straight through splices using U1B (full pair) type Scotchlok connectors shall be accomplished first.
- b. Splice pressure contactor pair at LF's using U1Y (tap model) type Scotchlok connector.
- c. The dead copper pairs should be spliced after all other pairs have been spliced.
- d. In those cases where splicing is not one to one, refer to the appropriate sketch for configuration.
- e. A requirement exists that if the splice configuration is subjected to tension, the slack connectors will be free to move, and will not bind due to taping.
- f. Termination splices must be made with six (6) inches plus or minus 3/16 inch slack in each conductor after the splice is made.

TABLE NO. 1SQUADRON 1

<u>Buried Cable Section</u>	<u>Conduit No.</u>	<u>H & D Cable Stub No.</u>	<u>Flight</u>	<u>Splice Case No.</u>	<u>ESA No.</u>
A1-33	2	1		1	369
A1-26	1	2	"A"	2	370
A1-30	4	3	<u>LCF</u>	3	371
A1-20	5	4		4	372
B1-17	2	1		1	369
B1-12	1	2	"B"	2	370
B1-15	4	3	<u>LCF</u>	3	371
B1-4	5	4		4	372
C1-35	2	1		1	369
C1-38	1	2	"C"	2	370
C1-41	4	3	<u>LCF</u>	3	371
C1-47	5	4		4	372
D1-9	2	1		1	369
D1-53	1	2	"D"	2	370
D1-56	4	3	<u>LCF</u>	3	371
D1-61	5	4		4	372
E1-70	2	1		1	369
E1-67	1	2	"E"	2	370
E1-73	4	3	<u>LCF</u>	3	371
E1-76	5	4		4	372

SQUADRON II

F1-7	2	1		1	369
F1-3	1	2	"F"	2	370
F1-13	4	3	<u>LCF</u>	3	371
F1-16	5	4		4	372
G1-20	2	1		1	369
G1-30	1	2	"G"	2	370
G1-23	4	3	<u>LCF</u>	3	371
G1-35	5	4		4	372
H1-37	2	1		1	369
H1-43	1	2	"H"	2	370
H1-40	4	3	<u>LCF</u>	3	371
H1-49	5	4		4	372
I1-53	2	1		1	369
I1-58	1	2	"I"	2	370
I1-61	4	3	<u>LCF</u>	3	371
I1-66	5	4		4	372

TABLE NO. 1. (CONTINUED)

<u>Buried Cable Section</u>	<u>Conduit No.</u>	<u>H & D Cable Stub No.</u>	<u>Squadron II (Continued)</u>	<u>Flight</u>	<u>Splice Case No.</u>	<u>ESA No.</u>
J1-69	2	1			1	369
J1-74	1	2		"J"	2	370
J1-78	4	3		<u>LCF</u>	3	371
J1-82	5	4			4	372
<u>Squadron III</u>						
K1-3	2	1			1	369
K1-6	1	2		"K"	2	370
K1-10	4	3		<u>LCF</u>	3	371
K1-16	5	4			4	372
L1-19	2	1			1	369
L1-24	1	2		"L"	2	370
L1-27	4	3		<u>LCF</u>	3	371
L1-31	5	4			4	372
M1-53	2	1			1	369
M1-64	1	2		"M"	2	370
M1-59	4	3		<u>LCF</u>	3	371
M1-56	5	4			4	372
N1-66	2	1			1	369
N1-71	1	2		"N"	2	370
N1-76	4	3		<u>LCF</u>	3	371
N1-79	5	4			4	372
O1-34	2	1			1	369
O1-39	1	2		"O"	2	370
O1-44	4	3		<u>LCF</u>	3	371
O1-47	5	4			4	372
<u>Squadron IV</u>						
P1-55	2	1			1	369
P1-59	1	2		"P"	2	370
P1-62	4	3		<u>LCF</u>	3	371
P1-64	5	4			4	372
Q1-15	2	1			1	369
Q1-7	1	2		"Q"	2	370
Q1-18	4	3		<u>LCF</u>	3	371
Q1-21	5	4			4	372

TABLE NO. 1 (CONTINUED)

SQUADRON NO. IV (CONTINUED)

<u>Buried Cable Section</u>	<u>Conduit No.</u>	<u>H & D Cable Stub No.</u>	<u>Flight</u>	<u>Splice Case No.</u>	<u>ESA No.</u>
R1-10	2	1		1	369
R1-39	1	2	"R"	2	370
R1-51	4	3	<u>LCF</u>	3	371
R1-45	5	4		4	372
S1-72	2	1		1	369
S1-78	1	2	"S"	2	370
S1-75	4	3	<u>LCF</u>	3	371
S1-83	5	4		4	372
T1-26	2	1		1	369
T1-24	1	2	"T"	2	370
T1-29	4	3	<u>LCF</u>	3	371
T1-32	5	4		4	372

TABLE NO. IIBuried (Hard) Cable
Color CodeGroup & Cable
Pair No.ESA (Pressure Dam)
Stub Cable Wire No.
and Color Code

WHT-BLU	Group 1-1	001WHT-002BLU
WHT-ORN	-2	003WHT-004ORN
WHT-GRN	-3	005WHT-006GRN
WHT-BRN	-4	007WHT-008BRN
WHT-SL	-5	009WHT-010SL
RED-BLU	-6	011RED-012BLU
RED-ORN	-7	013RED-014ORN
RED-GRN	-8	015RED-016GRN
RED-BRN	-9	017RED-018BRN
RED-SL	-10	019RED-020SL
BLK-BLU	-11	021BLK-022BLU
BLK-ORN	-12	023BLK-024ORN
BLK-GRN	-13	025BLK-026GRN
BLK-BRN	-14	027BLK-028BRN
BLK-SL	-15	029BLK-030SL
YEL-BLU	-16	031YEL-032BLU
YEL-ORN	-17	033YEL-034ORN
YEL-GRN	-18	035YEL-036GRN
YEL-BRN	-19	037YEL-038BRN
YEL-SL	-20	039YEL-040SL
VIO-BLU	-21	041VIO-042BLU
VIO-ORN	-22	043VIO-044ORN
VIO-GRN	-23	045VIO-046GRN
VIO-BRN	-24	047VIO-048BRN
VIO-SL	-25	049VIO-050SL

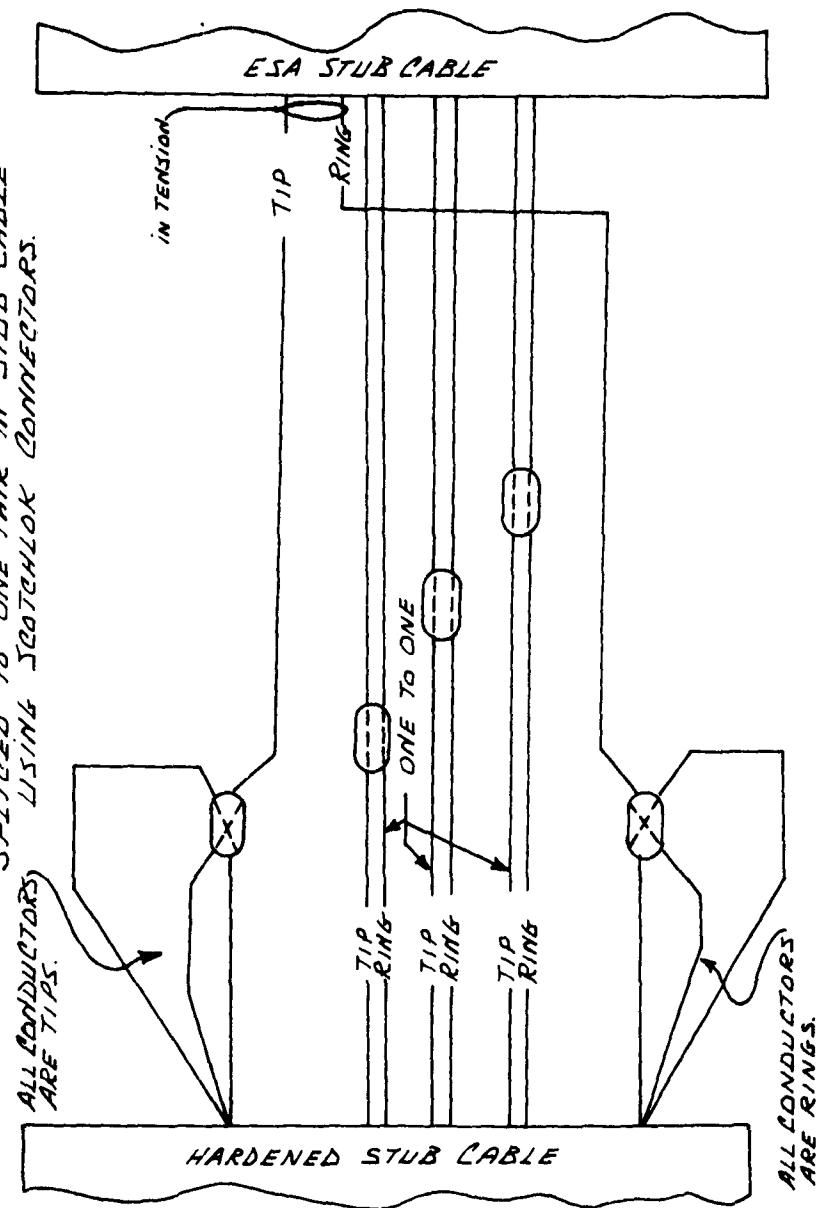
TABLE NO. II (CONTINUED)

<u>Buried (Hard) Cable Color Code</u>	<u>Group & Cable Pair No.</u>	<u>ESA (Pressure Dam) Stub Cable Wire No. and Color Code</u>
WHT-BLU	Group 2-1	051WHT-052BLU
WHT-ORN	-2	053WHT-054ORN
WHT-GRN	-3	055WHT-056GRN
WHT-BRN	-4	057WHT-058BRN
WHT-SL	-5	059WHT-060SL
RED-BLU	-6	061RED-062BLU
RED-ORN	-7	063RED-064ORN
RED-GRN	-8	065RED-066GRN
RED-BRN	-9	067RED-068BRN
RED-SL	-10	069RED-070SL
BLK-BLU	-11	071BLK-072BLU
BLK-ORN	-12	073BLK-074ORN
BLK-GRN	-13	075BLK-076GRN
BLK-BRN	-14	077BLK-078BRN
BLK-SL	-15	079BLK-080SL
YEL-BLU	-16	081YEL-082BLU
YEL-ORN	-17	083YEL-084ORN
YEL-GRN	-18	085YEL-086GRN
YEL-BRN	-19	087YEL-088BRN
YEL-SL	-20	089YEL-090SL
VIO-BLU	-21	091VIO-092BLU
VIO-ORN	-22	093VIO-094ORN
VIO-GRN	-23	095VIO-096GRN
VIO-BRN	-24	097VIO-098BRN
VIO-SL	-25	099VIO-100SL

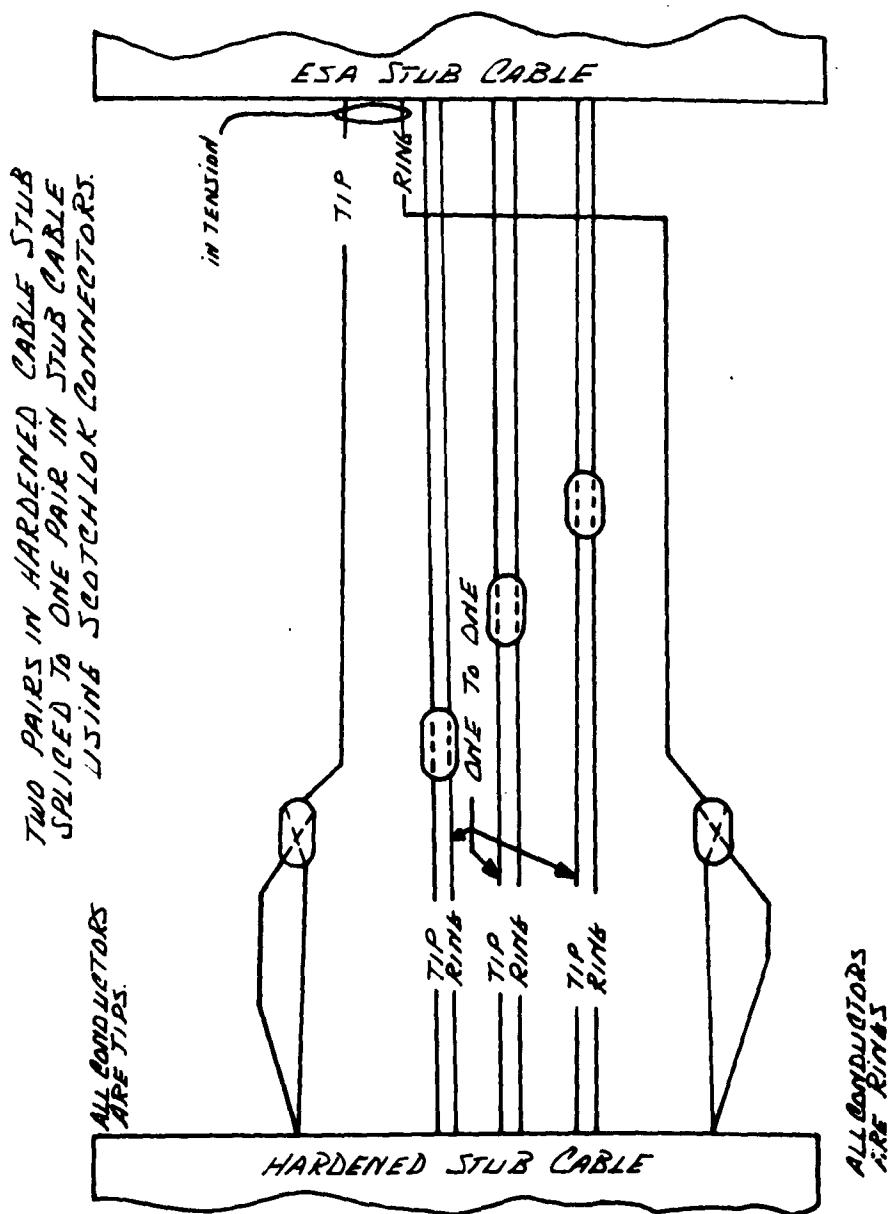
TABLE NO. II (CONTINUED)

<u>Buried (Hard) Cable Color Code</u>	<u>Group & Cable Pair No.</u>	<u>ESA (Pressure Dam) Stub Cable Wire No. and Color Code</u>
WHT-BLU	Group 3-1	101WHT-102BLU
WHT-ORN	-2	103WHT-104ORN
WHT-GRN	-3	105WHT-106GRN
WHT-BRN	-4	107WHT-108BRN
WHT-SL	-5	109WHT-110SL
RED-BLU	-6	111RED-112BLU

THREE PAIR IN HARDENED CABLE STUB
SPLICED TO ONE PAIR IN STUB CABLE
USING SCOTCHLOK CONNECTORS.
ALL CONDUCTORS
ARE TIPS.



SK 1



SK 2